TALTRONICS (PTY.) LTD.

P.O. BOX 69938 BRYANSTON 2021 TEL. 618-2014/5



ADVANCED INFORMATION Characteristics Subject to Change Without Notice.

MXD2210

IXD 2210

XD2210

Military Temperature Range -55°C to +125°C Industrial Temperature Range -40°C to +85°C Commercial Temperature Range 0°C to +70°C

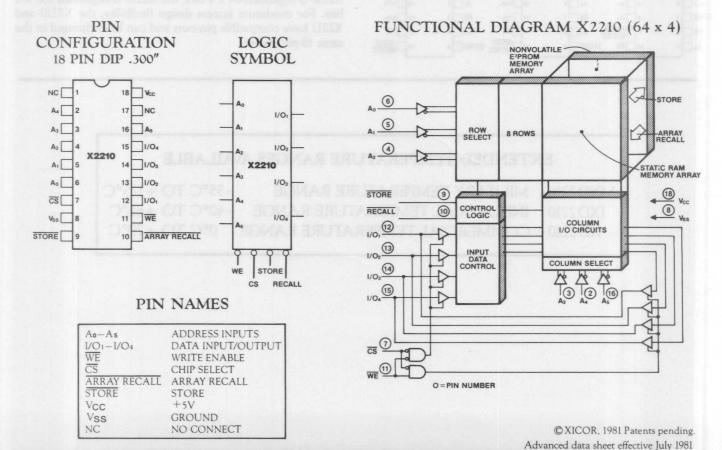
64 x 4 Bit Nonvolatile Static RAM 5V-Programmable

Extended Temperature Ranges

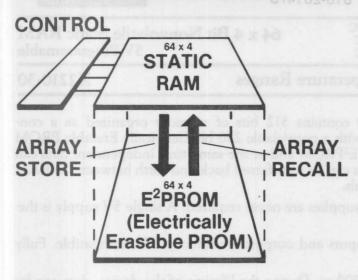
X2210-30

- NONVOLATILE STATIC RAM: The X2210 contains 512 bits of memory organized as a conventional 256 bit static RAM overlaid bit-for-bit with a nonvolatile 256 bit Electrically Erasable PROM (E²PROM). Nonvolatile data can be stored in the E²PROM and at the same time independent data can be accessed in the RAM memory. At any time, data can be transferred back-and-forth between the RAM and E²PROM by simple store and array recall signals.
- 5V-PROGRAMMABLE: High-voltage pulses or supplies are never required. A single 5V supply is the only power source ever required for any function.
- EASE-OF-USE: Unprecedented simplicity, all inputs and outputs are directly TTL compatible. Fully static timing. 18-pin package.
- PERFORMANCE: RAM cycle time is less than 300 ns. During the lifetime of the device, data can be recalled from the E²PROM an unlimited number of times.
- POWER-FAILURE PROTECTION: One simple TTL signal saves the entire RAM database. A snap-shot nonvolatile copy of all RAM data is internally stored safe without power and can be recalled to the RAM when power returns. No battery backup required.
- ORGANIZED FOR MICROCOMPUTER SYSTEMS: The common data input and output is organized four bits wide.

Xicor's X2210 is fabricated with reliable n-channel floating gate MOS technology. For systems where RAM nonvolatility or *in-the-circuit* ROM changes by TTL signals are important, the Xicor X2210 is an ideal choice.



MEMORY ORGANIZATION



LIMITED WARRANTY

Xicor, Inc. warrants that the products sold hereunder are free from any defects in material and/or workmanship and that the products meet the nominal specifications contained in the Xicor data sheet in effect at date of manufacture of such products. No other warranty is intended or should be implied by the purchaser, and Xicor specifically disclaims any incidental or consequential damages which may result from the use of the purchased products. Purchaser's sole temedy under this warranty shall be the replacement, without charge, of any Xicor products which do not comply with this warranty and which are returned to Xicor within ninety (90) days of purchase. Before any product can be returned to Xicor, purchaser must notify Xicor, in writing, of noncompliance of Xicor product with this warranty. This notice should include proof of purchase, all details of the use of the product since purchase, and certification that the product has been operated in compliance with the specified operating conditions and specified absolute maximum ratings. Further, no product will be returned to Xicor under the terms of this warranty without the express written consent of Xicor, which consent shall not be unreasonably withheld. Xicor reserves the sole rights to determine compliance under the terms of this warranty.

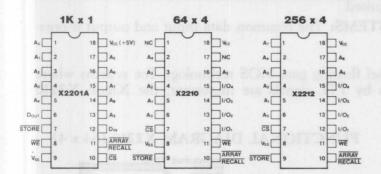
Purchaser is solely responsible to determining whether any Xicor product is suitable for use in purchaser's application. Xicor therefore assumes no re-

sponsibility for purchaser's circuits and systems operation.

The foregoing is in lieu of any other warranty, express, implied or statutory, including the implied warranties of merchantability and fitness for a particular purpose, and any implied warranty arising from course or performance, course of dealing or usage of trade, all of which other warranties are hereby expressly disclaimed.

Nothing herein shall be construed as passing or intending to pass Seller's warranty to Purchaser directly on to any customer(s) of Purchaser. In no event shall Seller be liable to Purchaser for loss of profits, loss of use, or damages

of any kind based upon a claim for breach of warranty.



A GROWING FAMILY OF NONVOLATILE STATIC RAMS

Available for immediate delivery, the X2201 is the first single 5V supply nonvolatile static RAM and is organized 1K x 1 bits. To meet the further needs of many microcomputer based systems two new nonvolatile RAMs complement the X2201. The X2210 is organized 64 x 4 bits; the X2212 is organized 256 x 4 bits. For maximum system design flexibility, the X2210 and X2212 have compatible pin-outs and can be exchanged in the same 18-pin socket.

EXTENDED TEMPERATURE RANGES AVAILABLE

MXD2210 MILITARY TEMPERATURE RANGE -55°C TO +125°C IXD2210 INDUSTRIAL TEMPERATURE RANGE -40°C TO +85°C XD2210 COMMERCIAL TEMPERATURE RANGE 0°C TO +70°C